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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22895 7590 03/25/2009
CASCADIA INTELLECTUAL PROPERTY
500 UNION STREET
SUITTE 1005

SEATTLE WA 98101

EXAMINER

HARPER, LEON JONATHAN

ART UNIT PAPER NUMBER

2166

DATE MAILED: 03/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,984	07/25/2003	Kenji Kawai	013.0207.US.UTL	4146

TITLE OF INVENTION: SYSTEM AND METHOD FOR PERFORMING EFFICIENT DOCUMENT SCORING AND CLUSTERING

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	06/25/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including a below or directed oth tions.	or transmitt ig the Paten icrwise in B	ing the ISSU t, advance or lock 1, by (a	JE FEE and PUBLICA rders and notification of a) specifying a new con	of m	ON FEE (if requi aintenance fees w oondence address;	red). B ill be i and/or	locks 1 through 5 s nailed to the current (b) indicating a sepa	corres rate "I	ne completed where pondence address as 'EE ADDRESS" for
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATIO			FIRMATION NO.
10/626,984	07/25/2003			Kenji Kawai			01	3.0207.US.UTL		4146
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nonprovisional	NO	\$I	510	\$300	_	\$0		\$1810		06/25/2009
EXAM	INER	ART	UNIT	CLASS-SUBCLASS						
HARPER, LEO			66	707-200000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address' 2 or more recent) attach	nge of Corre  ' Indication : ed. Use of a	spondence form Customer		to inative ingle or ag attorn be p	3 registered patent ely, firm (having as a gent) and the name neys or agents. If a rrinted.	membes of up	era 2 o to e is 3	ocume	nt has been filed for
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NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will no tes Patent an	ot be accepte d Trademark	d from anyone other that Office.	an th	e applicant; a regi	stered a	ttorney or agent; or th	ne assig	nee or other party in
Authorized Signature						Date				
Typed or printed name					Registration N					
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. T U.S.C. 122 USPTO. Ti den, should NOT SENI	he information and 37 CFR me will vary be sent to the DFEES OR	on is required to obtain a 1.14. This collection is depending upon the ine Chief Information Of COMPLETED FORMS	or re esti- divi- ficer 5 TO	tain a benefit by the mated to take 12 m dual case. Any co y, U.S. Patent and THIS ADDRESS	ne publ ninutes mment: Fradem . SENI	ic which is to file (and to complete, includir s on the amount of til ark Office, U.S. Dep O TO: Commissioner	I by the ig gathe me you artment for Pate	USPTO to process) ering, preparing, and require to complete of Commerce, P.O. ents, P.O. Box 1450,

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## UNITED STATES PATENT AND TRADEMARK OFFICE

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CASCADIA INT	ELLECTUAL PRO	HARPER, LEON JONATHAN			
500 UNION STRE	ET		ART UNIT	PAPER NUMBER	
SUITE 1005 SEATTLE, WA 98	3101		2166 DATE MAII ED: 03/25/200	0	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 473 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 473 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Notice of Allowability

Application No.	Applicant(s)				
10/626,984	KAWAI ET AL.				
Examiner	Art Unit				
EON HADDED	2166				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 2/26/09.
- 2. The allowed claim(s) is/are 19-27,31,36-44,48,52-53 (renumbered as 1-22).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All b) Some\* c) None of the:
    - 1. T Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) I hereto or 2) to Paper No./Mail Date \_\_\_\_\_
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying Indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date See Continuation Sheet
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other .

## Continuation Sheet (PTOL-37)

Application No. 10/626,984

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 9/7/04, 2/14/05, 10/30/03, 2/14/07, 10/1/07.

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Art Unit: 2166

## DETAILED ACTION

 This communication is in response to the request for continued examination filed 2/26/09 and subsequent pre-appeal conference decision. After a search and thorough examination of the present application and in light of the prior art made of record, claims 19-27, 31, 36-44, 48, 52-53 (renumbered as 1-22) are allowed.

## Reason for allowance

2 In light of the present invention's document scoring and clustering of documents via scoring logic including a frequency sub-module a concept weight sub-module a structural weight sub-module a corpus weight sub-module; a scoring evaluation submodule using the formula  $S = \sum F \times CW \times SW \times RW$ . Where S comprises the score. F comprises the frequency, 0 < CW < 1 comprises the concept weight, 0 < SW <, 1 comprises the structural weight, and 0 <RW < 1 comprises the corpus weight for occurrencej of concept i; Moreover, in light of the present inventions claimed vector submodule, determination sub-module, clustering module, cluster seed sub-module, identification sub-module, comparison sub-module, clustering sub-module, threshold module, the presently claimed invention is allowable. As for the eligibility of the subject matter of claims 52 and 53 examiner has found applicant's previous arguments persuasive "No limitations to a computer-readable storage medium or embodied on a transmission medium in a carrier wave are recited. The same observation can be made about independent system Claim 18, which, as amended, recites a scoring module that comprises a frequency module, concept weight module, structural weight module.

Application/Control Number: 10/626,984 Page 3

Art Unit: 2166

corpus weight module, and scoring evaluation module; and a clustering module that comprises a duster seed module and threshold module." (Applicant's response dated September 18, 2006). Applicant's comments in conjunction with the specification which states that the present invention is only meant for electronically stored documents (See specification pages 1-4). Accordingly, claim 52 must be executed by a processor and likewise the apparatus of claim 53 cannot be limited to software only but in fact does have hardware means. Therefore, claims 52 and 53 both meet the requirements of 35 U.S.C. 101.

Art Unit: 2166

## Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LEON HARPER whose telephone number is (571)272-0759. The examiner can normally be reached on Flex.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LJH Leon J. Harper March 16, 2009

/Hosain T Alam/ Supervisory Patent Examiner, Art Unit 2166